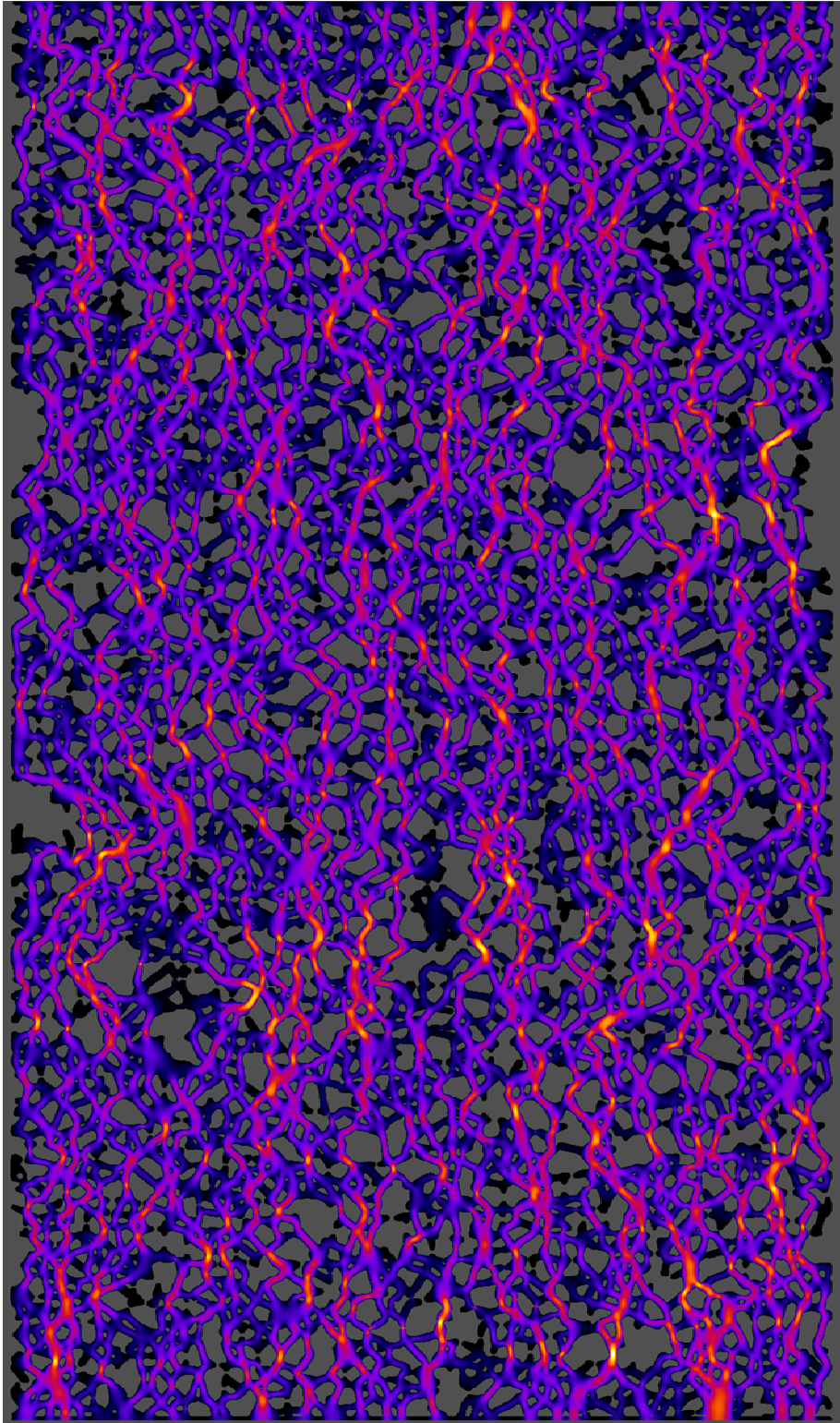
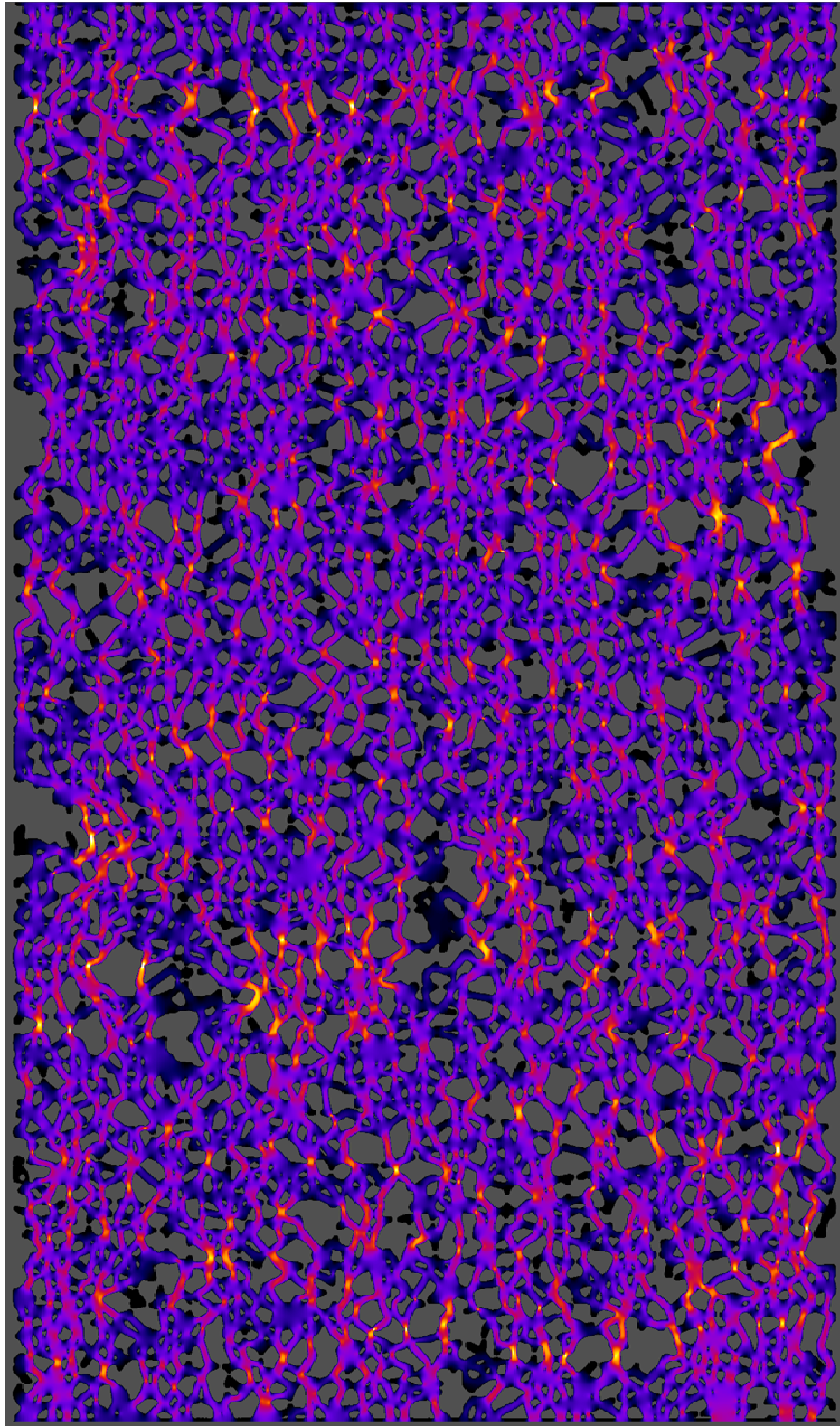


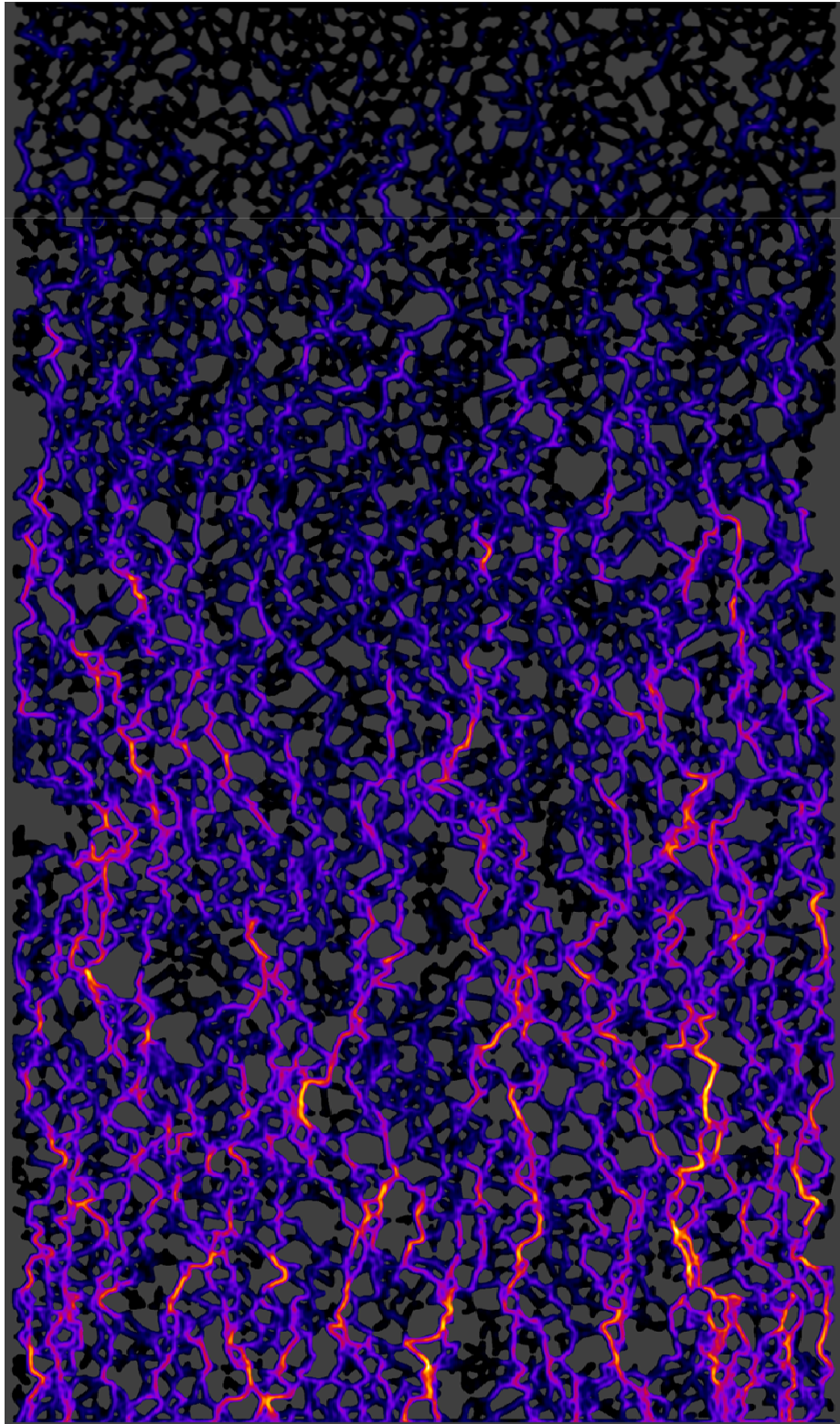
*Supp. material 1: Experimental foam flow, all datasets*



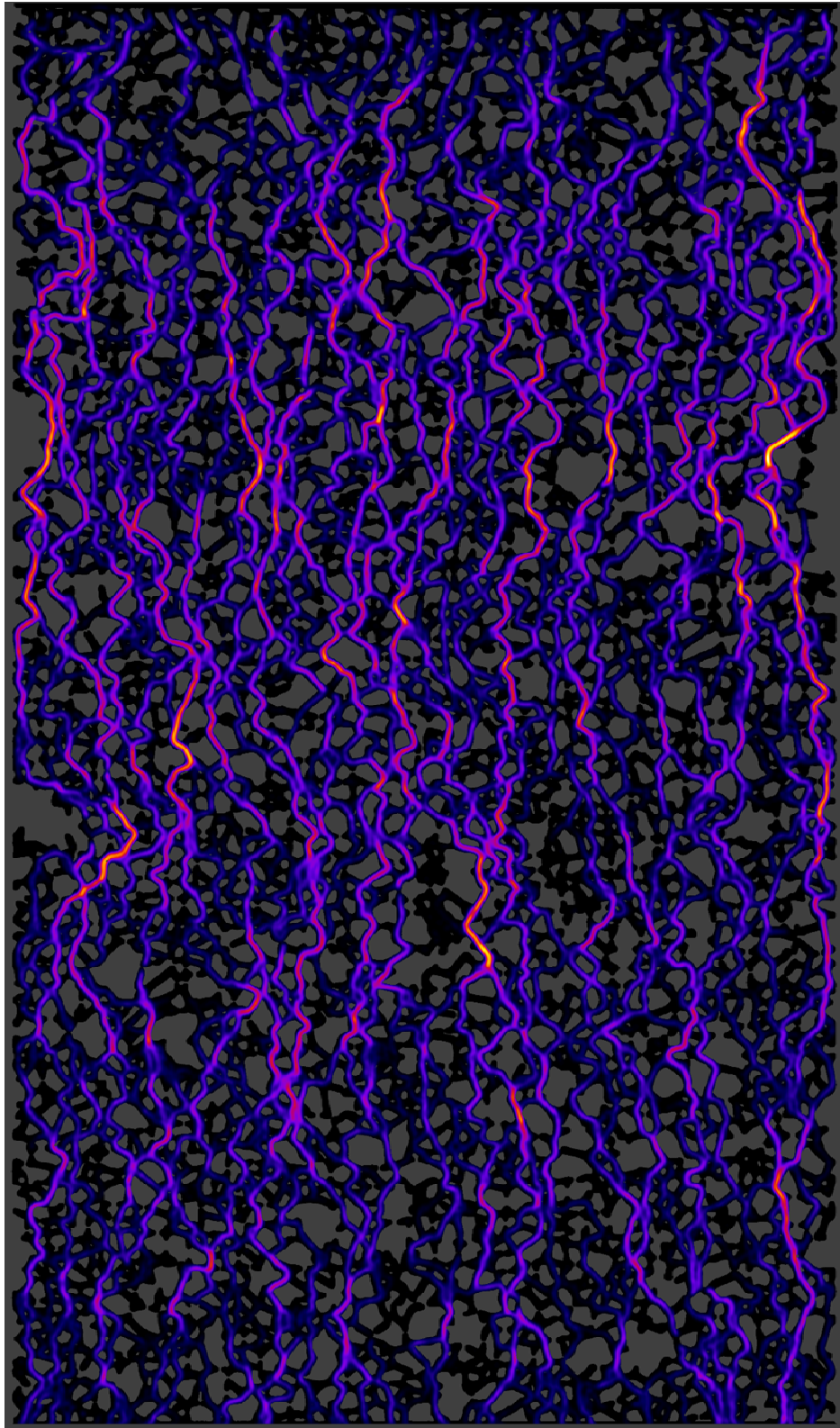
*Supp. material 2: 2D Full model Numerical flow*



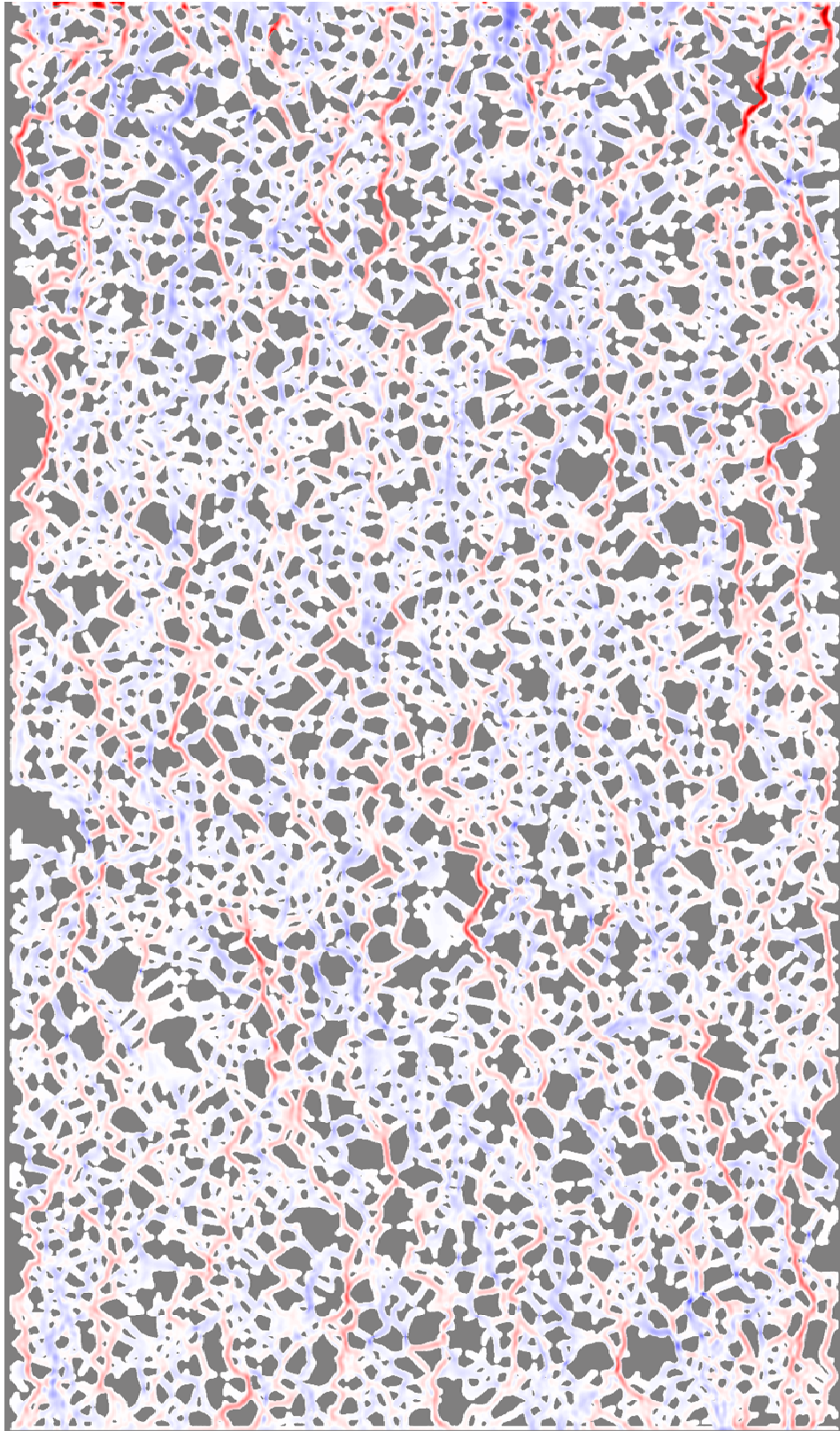
*Supp. material 3: 3D Full model Numerical flow*



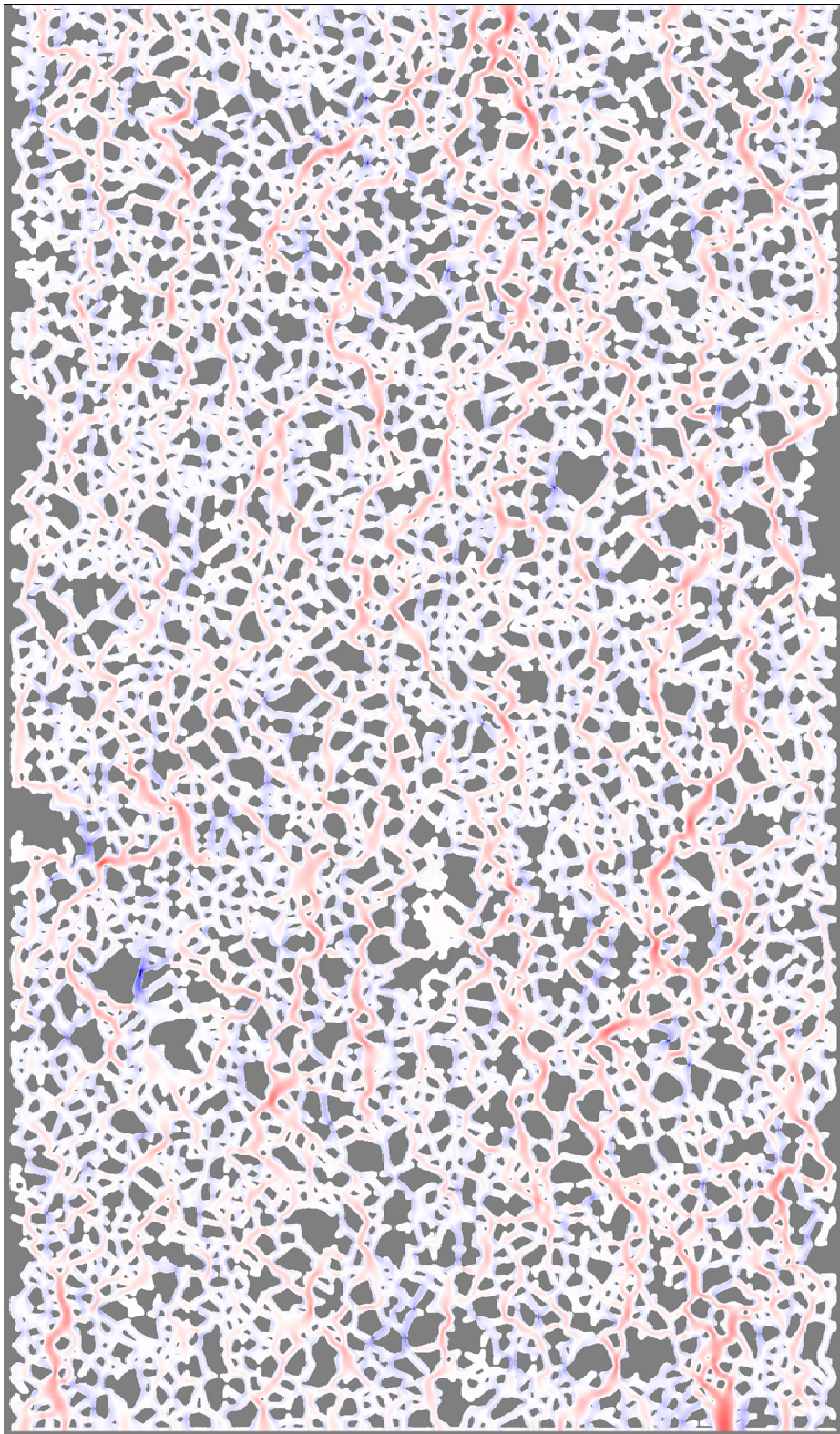
*Supp. material 4: Experimental foam flow, 0-20% of bubble size histogram. Flow is from top to bottom.*



*Supp. material 5: Experimental foam flow, 80-100% of bubble size histogram. Flow is from top to bottom*



*Supp. material 6: Experimental flow minus 2D Newtonian flow. Flow from top to bottom.*



*Supp. material 7: 2D Newtonian flow minus 3D Newtonian flow.*